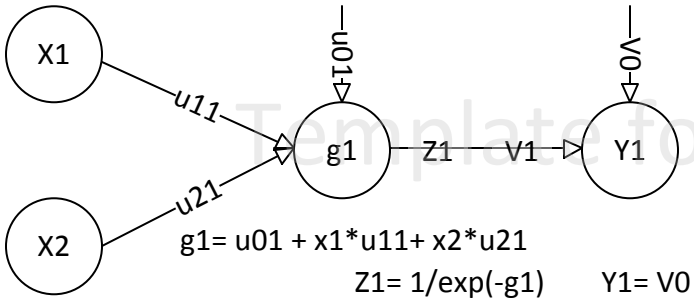
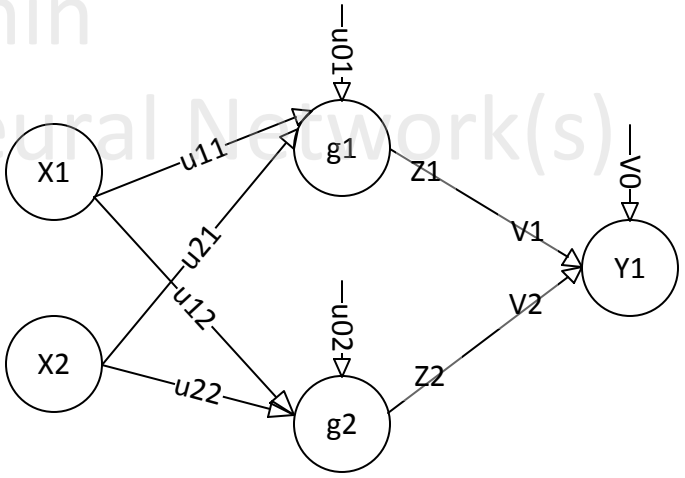


g1= u01 + x1*u11+ x2*u21

Z1= 1/exp(-g1) Y1= V0 + V1*Z1



g2= u02 + x1*u12+ x2*u22

Z2= 1/exp(-g2)

Y1= V0 + V1*Z1 + V2*Z2

```
%        1   2 ... number of tests
% x1     x11, x12, x13,  ... x1t
% x2     x21, x22, x23,  ... x2t
% ...
% ...
```

```
Input—Hidden weights
%      u1       u2       u3
%x1    u11      u12      u13
%x2    u21      u22      u23
%...    ...      ...
%IN+1 u01      u02      u03
```

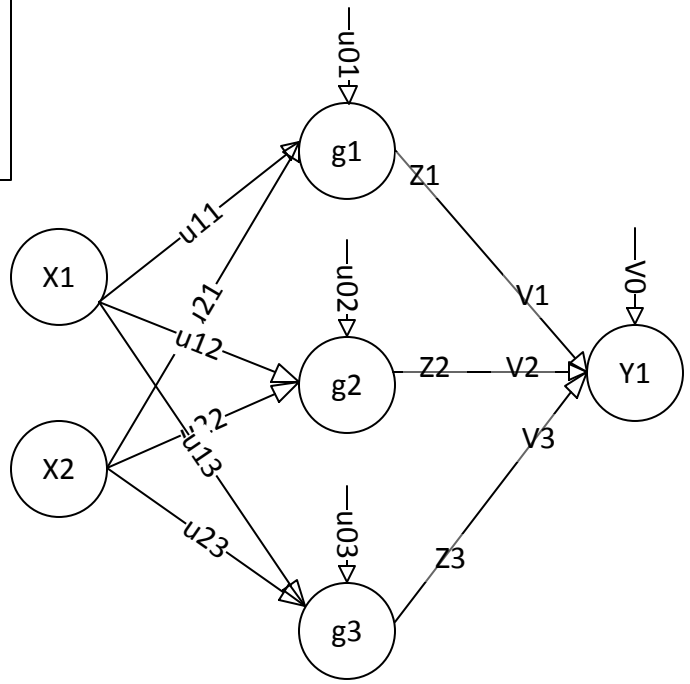
```
%BP vector for du = zeros(nhid, nin+1)
%      u1       u2       u3  … nhid
%x1    du11     du12     du13
%x2    du21     du22     du23
%IN+1 du01     du02     du03
```

```
%derfine vector for gamma = g(size H)
g=zeros(nhid,1);

%define vector for Z = Z(size H)
Z=zeros(nhid, 1);

%define vector for V = V(size H)
V=zeros(nhid, 1);
%V0(nout, 1) = output bias
V0 = zeros(nout, 1);

%BP vector for dV = zeros(nhid,1)
dV = zeros(nhid,nout);
%BP vector for output bias dV0 = zeros(nout,1)
dV0 = zeros(nout,1);
```



g3= u03 + x1*u13+ x2*u23

Z3= 1/exp(-g3)

Y1= V0 + V1*Z1 + V2*Z2 + V3*Z3